- 10 Stamler J, Caggiula A, Cutler J, Dolecek TA, Grandits GA, Kjelsberg M, et al, eds, for the MRFIT Cooperative Research Group. Dietary-nutritional methods and findings. The multiple risk factor intervention trial (MRFIT). Am 7 Clin Nur (in press).
- trial (MRFIT). Am J Clin Nutr (in press).

 11 Hashimoto T, Fujita Y, Ueshima H, Kagamimori S, Kasamatsu T, Morioka S et al. Urinary sodium and potassium excretion, body mass index, alcohol intake and blood pressure in three Japanese populations. J Hum Hyertens 1989;3:315-21.
- 12 Hofman A, Hazebroek A, Valkenburg HA. A randomised trial of sodium intake and blood pressure in newborn infants. JAMA 1983; 250:370-3.
- 13 Geleijnse JM. Sodium, potassium, and blood pressure. Studies in the young and the old [dissertation]. Rotterdam: Erasmus University, 1996.
- 14 Denton D, Weisinger R, Mundy NT, Wickings EJ, Dixson A, Moisson P. et al. The effect of increased salt intake on blood pressure of chimpanzees. Nature Med 1995;1:1009-16
- 15 Intersalt Cooperative Research Group. Intersalt: An international study of electrolyte excretion and blood pressure. Results for 24 hour urinary sodium and potassium excretion. BM7 1988;297:319-28.
- 16 Dyer AR, Shipley M, Elliott P. Urinary electrolyte excretion in 24 hours and blood pressure in the Intersalt study. I. Estimates of reliability. Am J Epidemiol 1994;139:927-39.
- 17 Dyer AR, Shipley M, Elliott P. Urinary electrolyte excretion in 24 hours and blood pressure in the Intersalt study. II. Estimates of electrolyte blood pressure associations corrected for regression dilution bias. Am J Epidemiol 1994;139:940-51.
- 18 Law MR, Frost CD, Wald NJ. By how much does salt restriction lower blood pressure? I. Analysis of observational data among populations. II. Analysis of observational data within populations. III. Analysis of data from trials of salt reduction BMJ 1991;302:811-24.

- 19 Cirillo M, Laurenzi M, Stamler J. Factors related to blood pressure in a sample of Italian children age 5 to 14: the Gubbio population study. Seminars in Nephrology 1988;9:267-71.
- 20 Stallones L, Mueller WH, Christensen BL. Blood pressure, fatness, and fat patterning among USA adolescents from two ethnic groups. Hypertension 1982:4:483-6
- 21 Stamler J. Epidemiological findings on body mass and blood pressure in adults. Ann Epidemiol 1991:1:347-62.
- 22 Roche AF, Siervogal RM, Chumlea WC, Webb P. Grading body fatness from limited anthropometric data. Am J Clin Nutr 1981;34:2831-8.
- 23 Siedell JC, Cigolini M, Charzewake J, Ellsinger M, Di Biase G, Bjorntorp P, et al. Indicators of fat distribution, serum lipids, and blood pressure in European women born in 1948—the European fat distribution study. Am J Epidemiol 1989;130:53-65.
- 24 Birmingham B, Dyer AR, Shekelle RB, Stamler J. Subscapular and triceps skinfold thicknesses. body mass index and cardiovascular risk factors in a
- cohort of middle-aged employed men. J Clin Epidemiol 1993;46:289-302.
 Folsom A, Li Y, Rao X, Cen R, Zhang K, Liu X, et al. Body mass, fat distribution and cardiovascular risk factors in a lean population of south China. J Clin Epidemiol 1994;47:173-81.
- 26 Liu K, Stamler T, Stamler R, Cooper R, Shekelle RB, Schoenberger JA, et al. Methodological problems in characterising an individual's plasma glucose level. J Chron Dis 1982;35:475-85.
- 27 Marks GC, Habicht J-P, Mueller WH. Reliability, dependability, and precision of anthropometric methods. The second national health and nutrition examination survey, 1976-1980. Am § Ebidemiol 1989;130:578-87.
- 28 Dyer AR, Elliott P, Shipley M, Stamler R, Stamler J. Body mass index and associations of sodium and potassium with blood pressure in Intersalt. Hypertension 1994;23:729-36.

The Ljubljana Charter on Reforming Health Care



Rising inequity in the quality and distribution of health care have led WHO's European member states to draw up a charter on reforming health care at their meeting in Ljubljana last week. We reproduce the text of the final draft (18 June)

PREAMRI E

- 1. The purpose of this Charter is to articulate a set of principles which are an integral part of current health care systems or which could improve health care systems in all Member States of the World Health Organisation in the European Region. These principles emerge from the experience of countries implementing health care reforms and from the European Health for All targets, especially those related to health care systems.
- 2. This Charter addresses health care reforms in the specific context of Europe and is centred on the principle that health care should first and foremost lead to better health and quality of life for people.
- 3. The improvements in the health status of the population are an indicator of development in the society. Health services are important, but they are not the only sector influencing peoples' wellbeing: other sectors also have a contribution to make and responsibility to bear in health, and intersectorality must therefore be an essential feature of health care reform.

4. In cognizance of this, we the Ministers of Health or their representatives from the European Member States of WHO (participants in the Ljubljana Conference) hereby pledge ourselves to promote the following principles and call upon all citizens and urge all governments, institutions and communities to join us in this endeavour. We further request the WHO Regional Office for Europe to take the necessary action to support Member States in giving effect to these principles.

FUNDAMENTAL PRINCIPLES

5. Within the European context, health care systems need to be:

5.1 Driven by values

Health care reforms must be governed by principles of human dignity, equity, solidarity and professional ethics.

5.2 Targeted on health

Any major health care reform should relate to clear targets for health gain. The protection and promotion of health must be a prime concern of all society.

5.3 Centred on people

Health care reforms must address citizens' needs, taking into account their expectations about health and health care. They should ensure that the citizen's voice and choice decisively influence the way in which health services are designed and operate. Citizens must also share responsibility for their own health.

5.4 Focused on quality

Any health care reform must have as its aim—and include a clear strategy for—continuous improvement in the quality of the health care delivered, including its cost-effectiveness.

5.5 Based on sound financing

The financing of health care systems should enable such care to be delivered to all citizens in a sustainable way. This entails universal coverage and equitable



Fig 1—Meeting in Ljubljana, the 49 member states of WHO's European region have drawn up a charter which underlines the fundamental principle that health care should be to improve people's health, not contain costs

access by all people to the necessary care. That, in turn, requires the efficient use of health resources. To guarantee solidarity, governments must play a crucial role in regulating the financing of health care systems.

5.6 Oriented towards primary health care

Reforms, with primary health care as a philosophy, should ensure that health services protect and promote health, improve the quality of life, prevent and treat diseases, rehabilitate patients and care for the suffering and terminally ill. They should reinforce joint decision-making by the patient and care provider and promote the comprehensiveness and continuity of care within their specific cultural environments.

PRINCIPLES FOR MANAGING CHANGE

6. The following principles are keys to managing change effectively:

6.1 Develop health policy

- 6.1.1 Health care reform should take place as a coherent part of an overall policy for health for all which is consonant with the socioeconomic conditions of each country. This policy development process needs to be based on a broad consensus involving as many relevant social actors as possible.
- 6.1.2 Major policy, managerial and technical decisions on development of the health care system should be based on evidence where available. Reforms must be continuously monitored and evaluated in a way that is transparent to the public.
- 6.1.3 Governments must raise value-related issues for public debate and ensure equitable distribution of resources and access of the entire population to health services. They should also take facilitating legislative and regulatory initiatives. Whenever market mechanisms are appropriate, they should favour competition in ensuring quality and in using scarce resources.

6.2 Listen to the citizen's voice and choice

- 6.2.1 The citizen's voice and choice should make as significant a contribution to shaping health care services as the decisions taken at other levels of economic, managerial and professional decision-making.
- 6.2.2 The citizen's voice should be heard on issues such as the content of health care, contracting, quality of services in the provider/patient relationship, the management of waiting lists and the handling of complaints.
- 6.2.3 The exercise of choice and of other patients' rights, requires extensive, accurate and timely information and education. This entails access to publicly verified information on health services' performance.

6.3 Reshape health care delivery

- 6.3.1 Self care, family care and other informal care, as well as the work of a variety of social institutions, need to be brought closer together with the formal health care services. This requires continuous personal communication and appropriate referral and information systems.
- 6.3.2 Well designed strategies are needed to shift working capacity from hospital care to primary health care, community care, day care and home care, whenever necessary.
- 6.3.3 Regional health service networks need to be reinforced insofar as they are more cost-effective, allow for a better organisation of the response to medical emergencies and facilitate cooperation between hospitals and primary health care.
- 6.3.4 Continuous quality development in health care requires information systems based on selected quality



Fig 2—Ljubljana, capital of Slovenia, is situated in the Sava river basin

indicators that can be abstracted from routine work and fed back to individual physicians, nurses and other health care providers.

6.4 Reorient human resources for health care

- 6.4.1 In the health services, greater attention needs to be paid to identifying and stimulating appropriate professional profiles that can be part of the multiprofessional teams of tomorrow's health care systems.
- 6.4.2 There is a need for a broader vision than that of traditional curative care in the basic training, specialisation and continuing education of health care personnel. Quality of care, disease prevention and health promotion should be an integral part of training.
- 6.4.3 Proper incentives should be introduced to encourage health personnel to be more conscious of quality and cost and outcomes of care. Professional and payment organisations should cooperate actively with health authorities to promote such a development.

6.5 Strengthening management

- 6.5.1 There is a need to develop a set of managerial functions and public health infrastructures entrusted with the tasks of guiding or influencing the overall system to achieve the desired improvements in the population's health.
- 6.5.2 Individual health care institutions should enjoy the maximum possible autonomy in management of their resources consistent with the principles of an equitable and efficient health care system.
- 6.5.3 Management development needs to be strongly promoted by strengthening individual capacities to lead, negotiate and communicate and by developing institutional tools to deliver health care more effectively and efficiently.

6.6 Learning from experience

- 6.6.1 There is a need to promote the national and international exchange of experience with implementing health care reform and supporting reform initiatives.
- 6.6.2 This support must be founded on a well validated knowledge base with regard to health care reforms, with cross-cultural differences in health care being properly understood and appropriately valued.

This document does not confer legal rights.

BMJ VOLUME 312 29 JUNE 1996 1665